

ABSTRACT

A moving-magnet-type linear slider, whose linear guide is suitably pressurized by a magnetic attractive force so as to increase rigidity, is provided.

A moving-magnet-type linear slider is constructed with a linear guide that movably supports and guides a table (3) with respect to a fixed base (1), a linear motor in which a permanent magnet (4) for a magnetic field is arranged on a table (3) side and an armature (2) is arranged on the fixed base (1), and detecting means in which a linear scale (5) is fixed on the table (3) and a sensor head (6) is fixed on a fixed base (1) side. When fixing the armature (2) on the fixed base (1) so as to be sandwiched between left and right guide rails (8) on the fixed base (1), a thrust center axis where a thrust of the armature (2) is generated is arranged so as to be substantially coincident with a center axis G-G of a space between the left and right guide rails (8). This makes a magnetic attractive force acting upon the permanent magnet for a magnetic field to be applied to the linear guide as a pressurization.